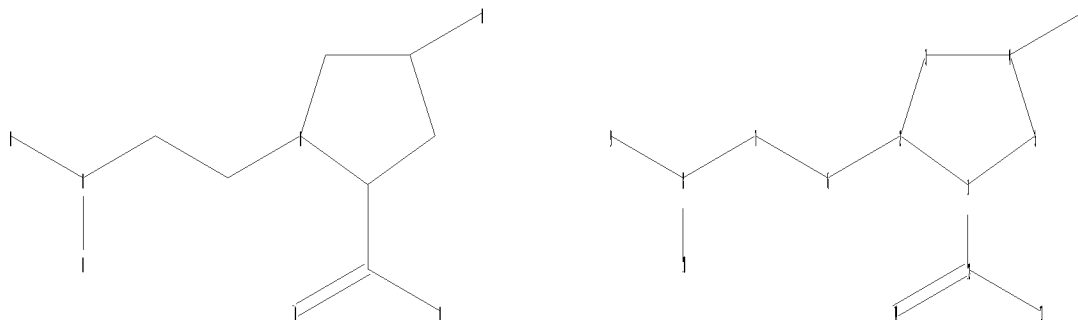


Uploading C:\Program Files\Stnexp\Queries\IV.str



```
chain nodes :
6 7 8 9 10 11 12 13 14
ring nodes :
1 2 3 4 5
chain bonds :
1-12 2-6 4-11 6-7 7-8 8-9 8-10 12-13 12-14
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 2-3 2-6 3-4 4-5 7-8 12-14
exact bonds :
1-12 4-11 6-7 8-9 8-10 12-13
```

```
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS
```

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 00:45:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 23635 TO ITERATE

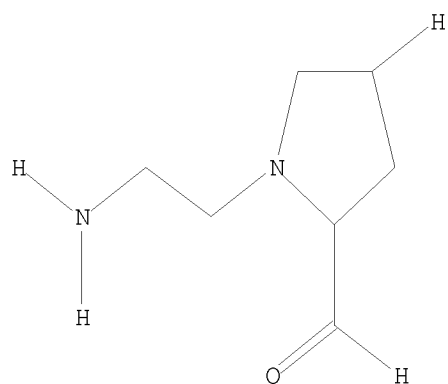
8.5% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 463499 TO 481901
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> d l1

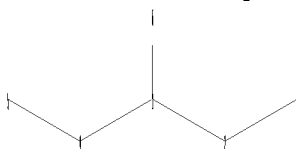
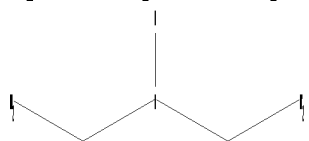
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=>

Uploading C:\Program Files\Stnexp\Queries\basic thing.str



```
chain nodes :
1  2  3  4  5  6
chain bonds :
1-4  1-2  1-6  2-3  4-5
exact/norm bonds :
1-4  1-2  2-3  4-5
exact bonds :
1-6
```

Match level :

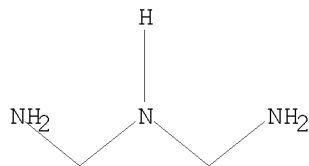
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS

L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 13

SAMPLE SEARCH INITIATED 00:46:47 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2973 TO ITERATE

67.3% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 56190 TO 62730
PROJECTED ANSWERS: 8482 TO 11138

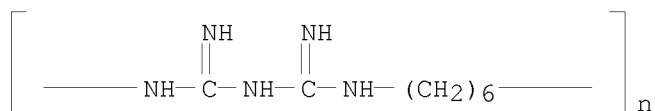
L4 50 SEA SSS SAM L3

=> d 1

L4 ANSWER 1 OF 50 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1017571-63-9 REGISTRY
ED Entered STN: 27 Apr 2008
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl),
(2Z)-2-butenedioate (CA INDEX NAME)
FS STEREOSEARCH
MF (C8 H17 N5)n . x C4 H4 O4
PCT Polyother, Polyother only
SR CA
LC STN Files: CA, CAPLUS

CM 1

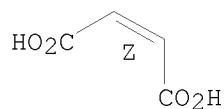
CRN 28757-47-3
CMF (C8 H17 N5)n
CCI PMS



CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 00:42:49 ON 08 MAY 2008)

FILE 'REGISTRY' ENTERED AT 00:43:59 ON 08 MAY 2008

L1 STRUCTURE UPLOADED

L2 0 S L1

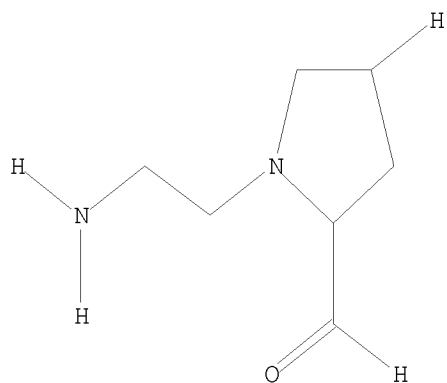
L3 STRUCTURE UPLOADED

L4 50 S L3

=> d l1

L1 HAS NO ANSWERS

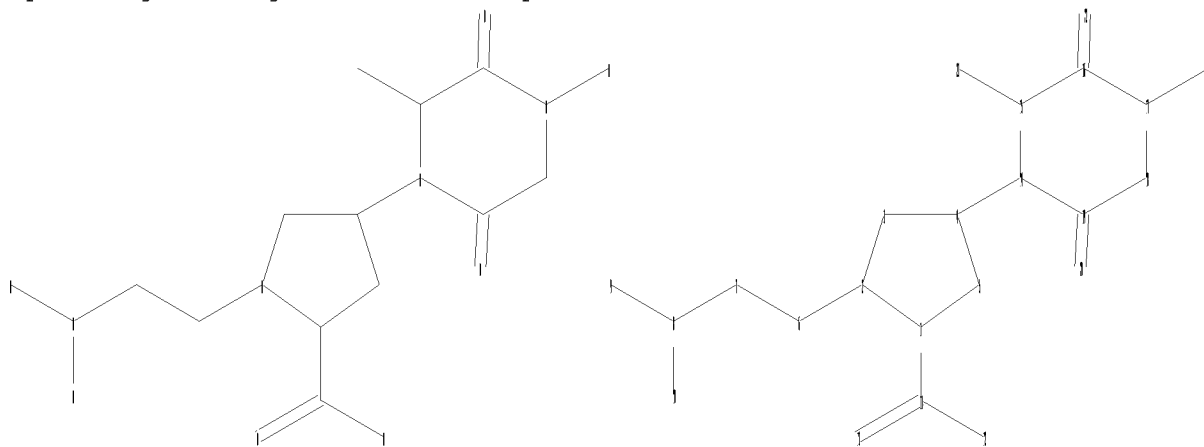
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=>

Uploading C:\Program Files\Stnexp\Queries\IVb.str



chain nodes :
6 7 8 9 10 11 12 13 20 21 22 23
ring nodes :
1 2 3 4 5 14 15 16 17 18 19
chain bonds :

1-11 2-6 4-14 6-7 7-8 8-9 8-10 11-12 11-13 15-23 16-22 17-21 19-20
 ring bonds :
 1-2 1-5 2-3 3-4 4-5 14-15 14-19 15-16 16-17 17-18 18-19
 exact/norm bonds :
 1-2 1-5 2-3 2-6 3-4 4-5 4-14 7-8 11-13 14-15 14-19 15-16 16-17 16-22
 17-18 18-19 19-20
 exact bonds :
 1-11 6-7 8-9 8-10 11-12 15-23 17-21

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
 11:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
 20:CLASS
 21:CLASS 22:CLASS 23:CLASS

L5 STRUCTURE UPLOADED

=> s 15

SAMPLE SEARCH INITIATED 00:55:23 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 4 TO 200

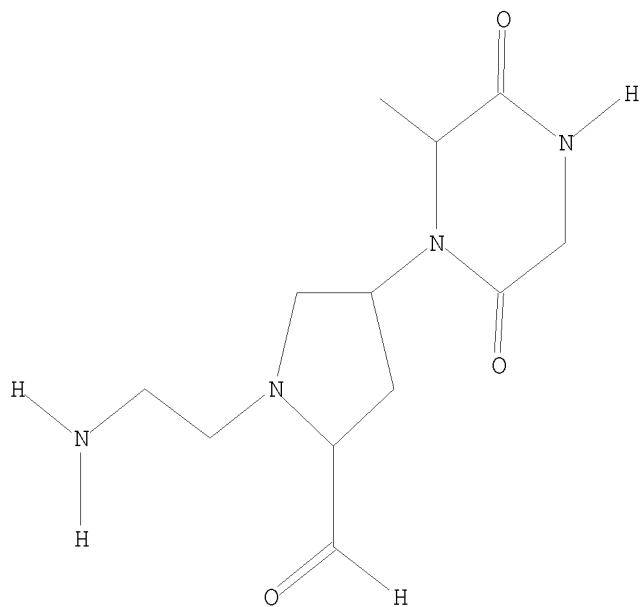
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> d 15

L5 HAS NO ANSWERS

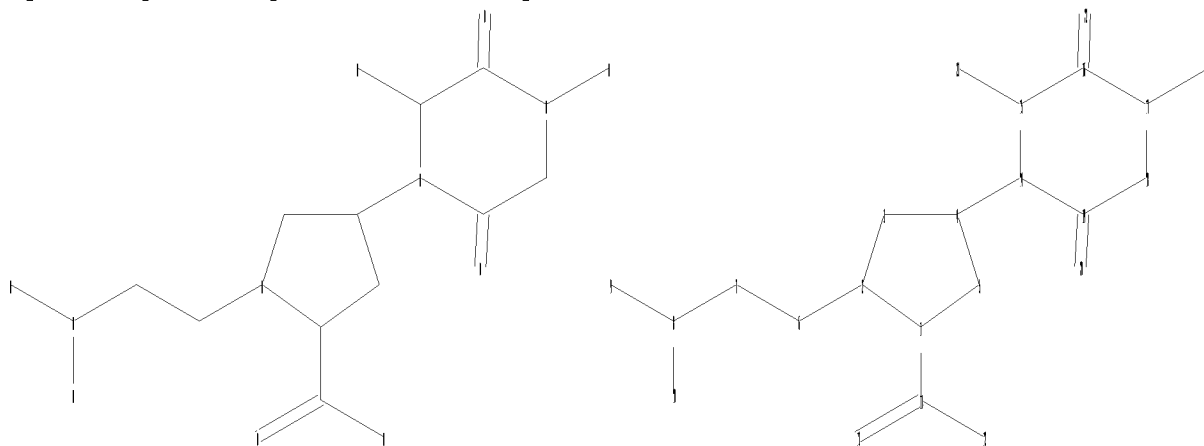
L5 STR



Structure attributes must be viewed using STN Express query preparation.

=>

Uploading C:\Program Files\Stnexp\Queries\IVb2.str



chain nodes :

6 7 8 9 10 11 12 13 20 21 22 23

ring nodes :

1 2 3 4 5 14 15 16 17 18 19

chain bonds :

1-11 2-6 4-14 6-7 7-8 8-9 8-10 11-12 11-13 15-23 16-22 17-21 19-20

ring bonds :

1-2 1-5 2-3 3-4 4-5 14-15 14-19 15-16 16-17 17-18 18-19

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 4-14 7-8 11-13 14-15 14-19 15-16 16-17 16-22
17-18 18-19 19-20

exact bonds :

1-11 6-7 8-9 8-10 11-12 15-23 17-21

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

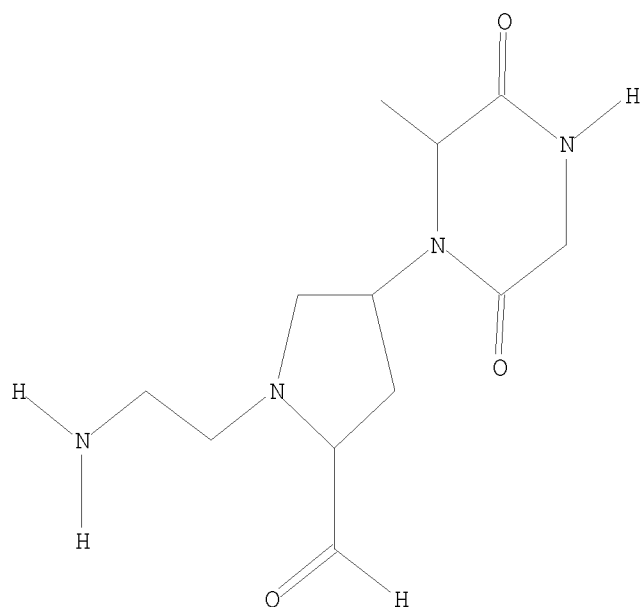
20:CLASS

21:CLASS 22:CLASS 23:CLASS

=> d 16

L6 HAS NO ANSWERS

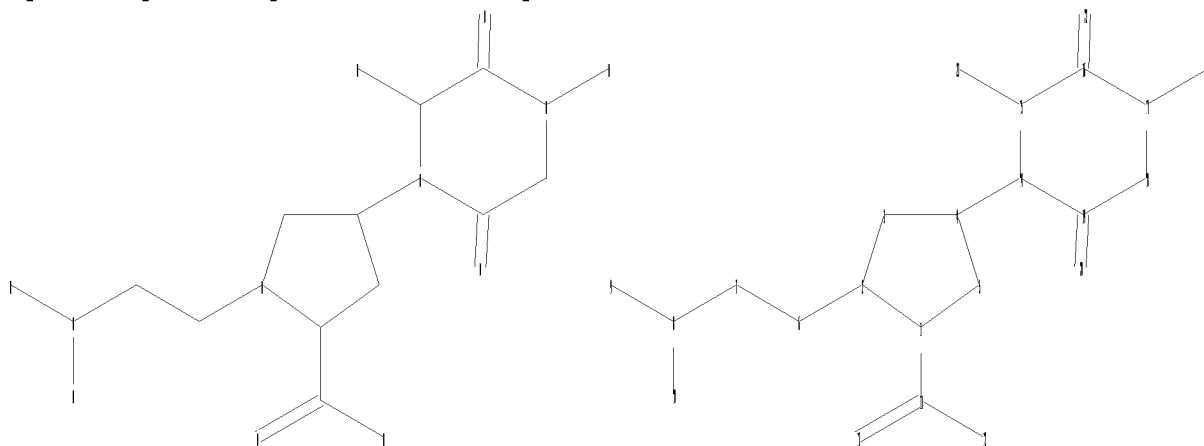
L5 STR



Structure attributes must be viewed using STN Express query preparation.
 L6 0 SEA FILE=REGISTRY SSS SAM L5

=>

Uploading C:\Program Files\Stnexp\Queries\IVb2.str



chain nodes :

6 7 8 9 10 11 12 13 20 21 22 23

ring nodes :

1 2 3 4 5 14 15 16 17 18 19

chain bonds :

1-11 2-6 4-14 6-7 7-8 8-9 8-10 11-12 11-13 15-23 16-22 17-21 19-20

ring bonds :

1-2 1-5 2-3 3-4 4-5 14-15 14-19 15-16 16-17 17-18 18-19

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 4-14 7-8 11-13 14-15 14-19 15-16 16-17 16-22
 17-18 18-19 19-20

exact bonds :
1-11 6-7 8-9 8-10 11-12 15-23 17-21

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS
21:CLASS 22:CLASS 23:CLASS

=> d his

(FILE 'HOME' ENTERED AT 00:42:49 ON 08 MAY 2008)

FILE 'REGISTRY' ENTERED AT 00:43:59 ON 08 MAY 2008

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 STRUCTURE UPLOADED
L4 50 S L3
L5 STRUCTURE UPLOADED
L6 0 S L5

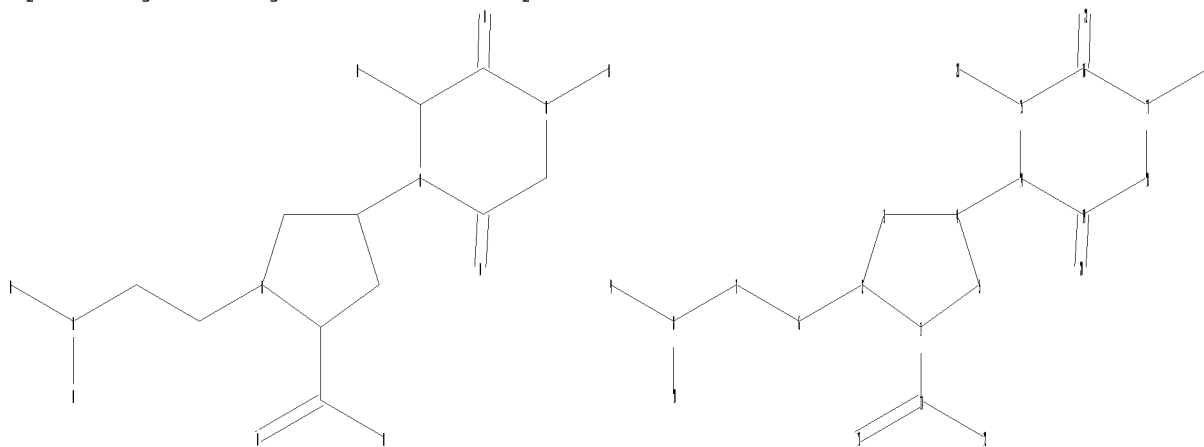
=> d 17

L7 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=>

Uploading C:\Program Files\Stnexp\Queries\IVb2.str



chain nodes :
6 7 8 9 10 11 12 13 20 21 22 23
ring nodes :
1 2 3 4 5 14 15 16 17 18 19
chain bonds :
1-11 2-6 4-14 6-7 7-8 8-9 8-10 11-12 11-13 15-23 16-22 17-21 19-20
ring bonds :
1-2 1-5 2-3 3-4 4-5 14-15 14-19 15-16 16-17 17-18 18-19

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 4-14 7-8 11-13 14-15 14-19 15-16 16-17 16-22
17-18 18-19 19-20

exact bonds :

1-11 6-7 8-9 8-10 11-12 15-23 17-21

Match level :

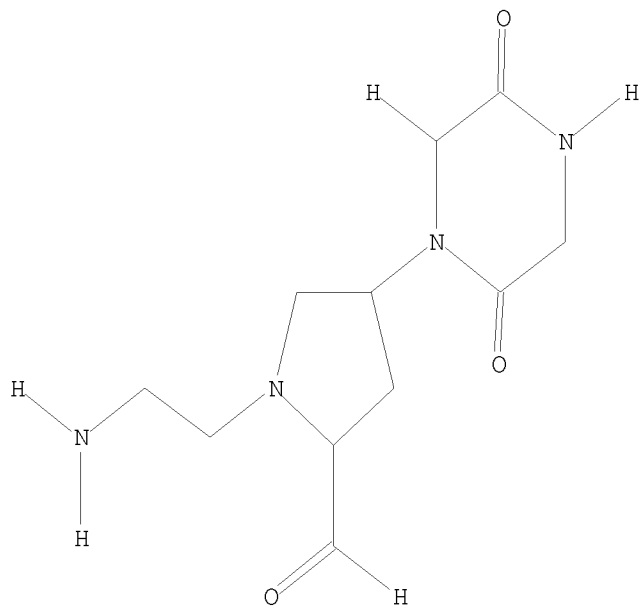
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS
21:CLASS 22:CLASS 23:CLASS

L7 STRUCTURE UPLOADED

=> d 17

L7 HAS NO ANSWERS

L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 17

SAMPLE SEARCH INITIATED 00:58:28 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 15 TO ITERATE

100.0% PROCESSED 15 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

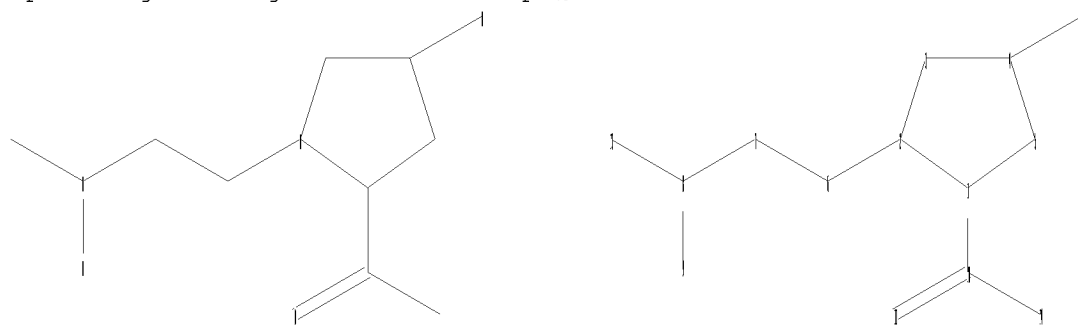
PROJECTED ITERATIONS: 68 TO 532

PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=>

Uploading C:\Program Files\Stnexp\Queries\IVc.str



chain nodes :

6 7 8 9 10 11 12 13 14

ring nodes :

1 2 3 4 5

chain bonds :

1-10 2-6 4-12 6-7 7-8 8-9 8-13 10-11 10-14

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 2-3 2-6 3-4 4-5 4-12 7-8 8-13 10-11

exact bonds :

1-10 6-7 8-9 10-14

Match level :

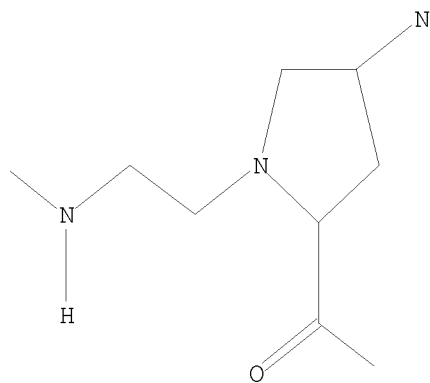
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS

L9 STRUCTURE UPLOADED

=> d 19

L9 HAS NO ANSWERS

L9 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 19

SAMPLE SEARCH INITIATED 01:01:04 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 88 TO ITERATE

100.0% PROCESSED 88 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 1198 TO 2322
PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

=> fil hcap

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 15.34 | 15.76 |

FILE 'HCAPLUS' ENTERED AT 01:01:12 ON 08 MAY 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 8 May 2008 VOL 148 ISS 19

FILE LAST UPDATED: 7 May 2008 (20080507/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 19

REG1STRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 01:01:17 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 88 TO ITERATE

100.0% PROCESSED 88 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1198 TO 2322
PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L9

L12 0 L11

=> d his

(FILE 'HOME' ENTERED AT 00:42:49 ON 08 MAY 2008)

FILE 'REGISTRY' ENTERED AT 00:43:59 ON 08 MAY 2008

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 STRUCTURE UPLOADED
L4 50 S L3
L5 STRUCTURE UPLOADED
L6 0 S L5
L7 STRUCTURE UPLOADED
L8 0 S L7
L9 STRUCTURE UPLOADED
L10 0 S L9

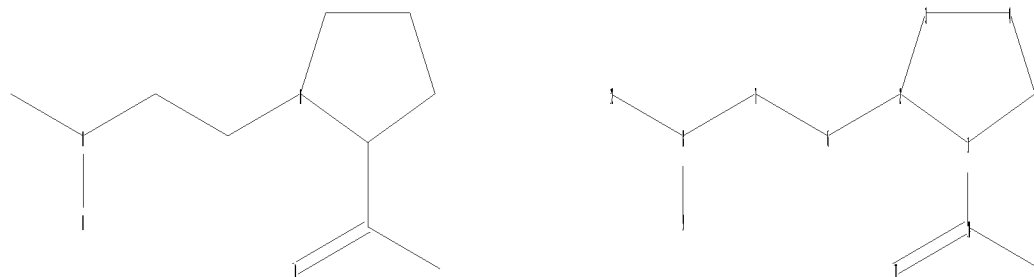
FILE 'HCAPLUS' ENTERED AT 01:01:12 ON 08 MAY 2008
S L9

FILE 'REGISTRY' ENTERED AT 01:01:17 ON 08 MAY 2008
L11 0 S L9

FILE 'HCAPLUS' ENTERED AT 01:01:17 ON 08 MAY 2008
L12 0 S L11

=>

Uploading C:\Program Files\Stnexp\Queries\ivd.str



chain nodes :
6 7 8 9 10 11 12 13
ring nodes :
1 2 3 4 5
chain bonds :
1-10 2-6 6-7 7-8 8-9 8-12 10-11 10-13
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 2-3 2-6 3-4 4-5 7-8 8-12 10-11
exact bonds :

1-10 6-7 8-9 10-13

Match level :

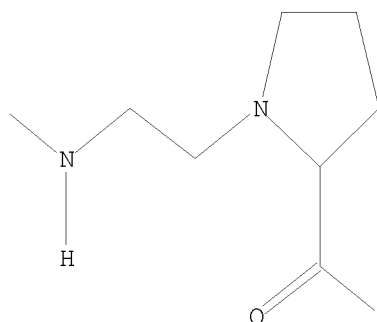
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS

L13 STRUCTURE UPLOADED

=> d l13

L13 HAS NO ANSWERS

L13 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l13

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 01:05:05 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5464 TO ITERATE

36.6% PROCESSED 2000 ITERATIONS

4 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 104848 TO 113712

PROJECTED ANSWERS: 20 TO 416

L14 4 SEA SSS SAM L13

L15 4 L14

=> d 1-4

L15 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 1996:592182 HCAPLUS <<LOGINID::20080508>>
 DN 125:301555
 TI Poststatin, a new inhibitor of prolyl endopeptidase. VII.
 N-cycloalkylamide analogs
 AU Tsuda, Makoto; Muraoka, Yasuhiko; Nagai, Machiko; Aoyagi, Takaaki;
 Takeuchi, Tomio
 CS Inst. Microbial Chem., Tokyo, 141, Japan
 SO Journal of Antibiotics (1996), 49(9), 909-920
 CODEN: JANTAJ; ISSN: 0021-8820
 PB Japan Antibiotics Research Association
 DT Journal
 LA English

L15 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 1992:236174 HCAPLUS <<LOGINID::20080508>>
 DN 116:236174
 OREF 116:40037a,40040a
 TI Preparation of pyrrolidinyl(oxo)acetyl- and piperidinyl(oxo)acetyl-
 containing peptides as prolyl endopeptidase inhibitors
 IN Someno, Tetsuya; Yamada, Fumika; Sugimura, Hideo; Muraoka, Yasuhiko;
 Tsuda, Makoto; Takeuchi, Tomio; Aoyagi, Takaaki
 PA Nippon Kayaku Co., Ltd., Japan
 SO Eur. Pat. Appl., 30 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------------------|------|----------|-----------------|----------|
| PI | EP 468339 | A2 | 19920129 | EP 1991-111819 | 19910716 |
| | EP 468339 | A3 | 19930217 | | |
| | EP 468339 | B1 | 19970409 | | |
| | R: DE, ES, FR, GB, IT, SE | | | | |
| | JP 04211648 | A | 19920803 | JP 1991-57753 | 19910301 |
| | US 5221752 | A | 19930622 | US 1991-729419 | 19910712 |
| | ES 2102989 | T3 | 19970816 | ES 1991-111819 | 19910716 |
| | JP 05221967 | A | 19930831 | JP 1991-205599 | 19910723 |
| PRAI | JP 1990-197753 | A | 19900727 | | |
| | JP 1991-57753 | A | 19910301 | | |
| OS | MARPAT 116:236174 | | | | |

L15 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 1991:467376 HCAPLUS <<LOGINID::20080508>>
 DN 115:67376
 OREF 115:11523a,11526a
 TI Inactivation of prolyl endopeptidase by a peptidylchloromethane. Kinetics
 of inactivation and identification of sites of modification
 AU Stone, Stuart R.; Rennex, Denise; Wikstrom, Peter; Shaw, Elliott;
 Hofsteenge, Jan
 CS Friedrich Miescher-Inst., Basel, CH-4002, Switz.
 SO Biochemical Journal (1991), 276(3), 837-40
 CODEN: BIJOAK; ISSN: 0306-3275
 DT Journal
 LA English

L15 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 1990:632069 HCAPLUS <<LOGINID::20080508>>
 DN 113:232069
 OREF 113:39177a,39180a

TI Preparation of (methoxysuccinylalanyllysylprolylmethyl)isopropylcarbamates
as human leukocyte elastase (HLE) inhibitors
IN Digenis, George A.; Agha, Bushra J.; Khouri, Charles
PA University of Kentucky Research Foundation, USA
SO PCT Int. Appl., 171 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| | ----- | ---- | ----- | ----- | ----- |
| PI | WO 9004409 | A1 | 19900503 | WO 1989-US4833 | 19891027 |
| | W: AU, JP | | | | |
| | RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE | | | | |
| | US 5008245 | A | 19910416 | US 1988-263385 | 19881027 |
| | US 5922319 | A | 19990713 | US 1989-409894 | 19890920 |
| | CA 2001629 | A1 | 19900427 | CA 1989-2001629 | 19891027 |
| | EP 367514 | A2 | 19900509 | EP 1989-311130 | 19891027 |
| | EP 367514 | A3 | 19910522 | | |
| | R: ES, GR | | | | |
| | AU 8945110 | A | 19900514 | AU 1989-45110 | 19891027 |
| | AU 629259 | B2 | 19921001 | | |
| | EP 396709 | A1 | 19901114 | EP 1989-912611 | 19891027 |
| | R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| | JP 03503055 | T | 19910711 | JP 1989-511609 | 19891027 |
| PRAI | US 1988-263385 | A | 19881027 | | |
| | US 1989-409894 | A | 19890920 | | |
| | WO 1989-US4833 | A | 19891027 | | |
| OS | MARPAT 113:232069 | | | | |

=> d 1

L15 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1996:592182 HCAPLUS <<LOGINID::20080508>>
DN 125:301555
TI Poststatin, a new inhibitor of prolyl endopeptidase. VII.
N-cycloalkylamide analogs
AU Tsuda, Makoto; Muraoka, Yasuhiko; Nagai, Machiko; Aoyagi, Takaaki;
Takeuchi, Tomio
CS Inst. Microbial Chem., Tokyo, 141, Japan
SO Journal of Antibiotics (1996), 49(9), 909-920
CODEN: JANTAJ; ISSN: 0021-8820
PB Japan Antibiotics Research Association
DT Journal
LA English

=> d 2

L15 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 1992:236174 HCAPLUS <<LOGINID::20080508>>
DN 116:236174
OREF 116:40037a,40040a
TI Preparation of pyrrolidinyl(oxo)acetyl- and piperidinyl(oxo)acetyl-
containing peptides as prolyl endopeptidase inhibitors
IN Someno, Tetsuya; Yamada, Fumika; Sugimura, Hideo; Muraoka, Yasuhiko;
Tsuda, Makoto; Takeuchi, Tomio; Aoyagi, Takaaki
PA Nippon Kayaku Co., Ltd., Japan
SO Eur. Pat. Appl., 30 pp.
CODEN: EPXXDW

DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------------------|------|----------|-----------------|----------|
| | ----- | ---- | ----- | ----- | ----- |
| PI | EP 468339 | A2 | 19920129 | EP 1991-111819 | 19910716 |
| | EP 468339 | A3 | 19930217 | | |
| | EP 468339 | B1 | 19970409 | | |
| | R: DE, ES, FR, GB, IT, SE | | | | |
| | JP 04211648 | A | 19920803 | JP 1991-57753 | 19910301 |
| | US 5221752 | A | 19930622 | US 1991-729419 | 19910712 |
| | ES 2102989 | T3 | 19970816 | ES 1991-111819 | 19910716 |
| | JP 05221967 | A | 19930831 | JP 1991-205599 | 19910723 |
| PRAI | JP 1990-197753 | A | 19900727 | | |
| | JP 1991-57753 | A | 19910301 | | |
| OS | MARPAT 116:236174 | | | | |

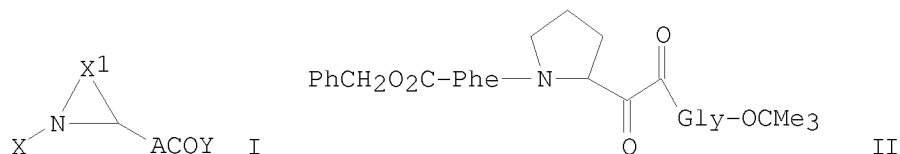
=> d 2 ibib

L15 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1992:236174 HCAPLUS <<LOGINID::20080508>>
DOCUMENT NUMBER: 116:236174
ORIGINAL REFERENCE NO.: 116:40037a,40040a
TITLE: Preparation of pyrrolidinyl(oxo)acetyl- and
piperidinyl(oxo)acetyl-containing peptides as prolyl
endopeptidase inhibitors
INVENTOR(S): Someno, Tetsuya; Yamada, Fumika; Sugimura, Hideo;
Muraoka, Yasuhiko; Tsuda, Makoto; Takeuchi, Tomio;
Aoyagi, Takaaki
PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 30 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|---------------------------|------|----------|-----------------|------------|
| | ----- | ---- | ----- | ----- | ----- |
| | EP 468339 | A2 | 19920129 | EP 1991-111819 | 19910716 |
| | EP 468339 | A3 | 19930217 | | |
| | EP 468339 | B1 | 19970409 | | |
| | R: DE, ES, FR, GB, IT, SE | | | | |
| | JP 04211648 | A | 19920803 | JP 1991-57753 | 19910301 |
| | US 5221752 | A | 19930622 | US 1991-729419 | 19910712 |
| | ES 2102989 | T3 | 19970816 | ES 1991-111819 | 19910716 |
| | JP 05221967 | A | 19930831 | JP 1991-205599 | 19910723 |
| PRIORITY APPLN. INFO.: | | | | JP 1990-197753 | A 19900727 |
| | | | | JP 1991-57753 | A 19910301 |
| OTHER SOURCE(S): | MARPAT 116:236174 | | | | |

=> d 2 abs hitind hitstr

L15 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
GI



AB Title compds. [I; X = H, protecting group, (protected) amino acid or peptide residue; Y = (protected) amino acid or peptide residue; X1 = CnH2n-1E; E = H, halo, alkoxy; n = 2-6; A = CO, HO-, alkoxy-PhNH-, or PhCH2NH-substituted methylene], were prepared Thus, 2-hydroxy-2-(N-benzyloxycarbonylpyrrolidin-2-yl)acetic acid and glycine tert-Bu ester hydrochloride were condensed in CH2Cl2 using hydroxybenzotriazole, DCC, and Et3N. The product was hydrogenolyzed followed by condensation with N-benzyloxycarbonylphenylalanine N-hydroxysuccinimide ester to give N-benzyloxycarbonylphenylalanyl-[2-hydroxy-2-(pyrrolidin-2-yl)acetyl]glycine tert-Bu ester. The product was oxidized with pyridine.CF3CO2H, DCC, and Me2SO to give the 2-oxo derivative II. This inhibited prolyl endopeptidase with IC50 = 0.0008 µg/mL.

IC ICM C07K005-02
ICS C07K007-02; A61K037-64; C07D207-08; C07D211-34; A61K031-445; A61K031-40

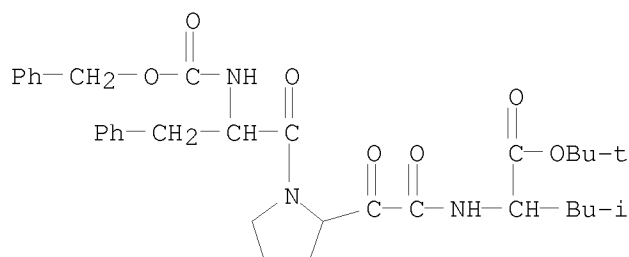
CC 34-3 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 1

IT 141403-59-0P 141403-60-3P 141403-61-4P 141403-62-5P 141403-63-6P
141403-64-7P 141403-65-8P 141403-66-9P 141403-67-0P 141403-68-1P
141403-69-2P 141403-70-5P 141403-71-6P 141403-72-7P
141403-73-8P 141403-74-9P 141403-75-0P 141403-76-1P 141403-77-2P
141403-78-3P 141403-79-4P 141403-80-7P 141403-81-8P 141420-03-3P
141446-46-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as prolyl endopeptidase inhibitor)

IT 141403-72-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as prolyl endopeptidase inhibitor)

RN 141403-72-7 HCAPLUS

CN D-Leucine, N-[oxo[1-[1-oxo-3-phenyl-2-[(phenylmethoxy)carbonyl]amino]propyl]-2-pyrrolidinyl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 00:42:49 ON 08 MAY 2008)

FILE 'REGISTRY' ENTERED AT 00:43:59 ON 08 MAY 2008

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 STRUCTURE UPLOADED
L4 50 S L3
L5 STRUCTURE UPLOADED
L6 0 S L5
L7 STRUCTURE UPLOADED
L8 0 S L7
L9 STRUCTURE UPLOADED
L10 0 S L9

FILE 'HCAPLUS' ENTERED AT 01:01:12 ON 08 MAY 2008
S L9

FILE 'REGISTRY' ENTERED AT 01:01:17 ON 08 MAY 2008
L11 0 S L9

FILE 'HCAPLUS' ENTERED AT 01:01:17 ON 08 MAY 2008
L12 0 S L11
L13 STRUCTURE UPLOADED
S L13

FILE 'REGISTRY' ENTERED AT 01:05:05 ON 08 MAY 2008
L14 4 S L13

FILE 'HCAPLUS' ENTERED AT 01:05:05 ON 08 MAY 2008
L15 4 S L14

=> s l1 l3 l5 l7 l9

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 01:15:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 23635 TO ITERATE

8.5% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 463499 TO 481901
PROJECTED ANSWERS: 0 TO 0

L16 0 SEA SSS SAM L1

L17 0 L16

REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 01:15:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2973 TO ITERATE

67.3% PROCESSED 2000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 56190 TO 62730
PROJECTED ANSWERS: 8482 TO 11138

L18 50 SEA SSS SAM L3

L19 47 L18

REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 01:15:53 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4 TO 200
PROJECTED ANSWERS: 0 TO 0

L20 0 SEA SSS SAM L5

L21 0 L20

REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 01:15:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 15 TO ITERATE

100.0% PROCESSED 15 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 68 TO 532
PROJECTED ANSWERS: 0 TO 0

L22 0 SEA SSS SAM L7

L23 0 L22

REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 01:15:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 88 TO ITERATE

100.0% PROCESSED 88 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

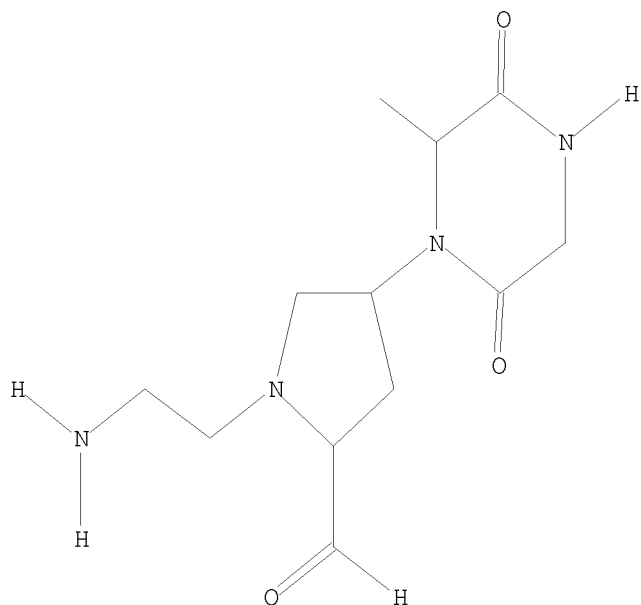
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1198 TO 2322
PROJECTED ANSWERS: 0 TO 0

L24 0 SEA SSS SAM L9

L25 0 L24

MISSING OPERATOR L17 L19
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> d 16
L6 HAS NO ANSWERS
L5 STR

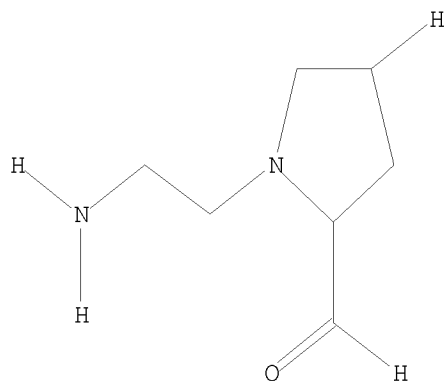


Structure attributes must be viewed using STN Express query preparation.
 L6 0 SEA FILE=REGISTRY SSS SAM L5

=> d 11 12 13 15 16 17 18 19 110 111 112 13
 L2 IS NOT VALID HERE
 For an explanation, enter "HELP DISPLAY".

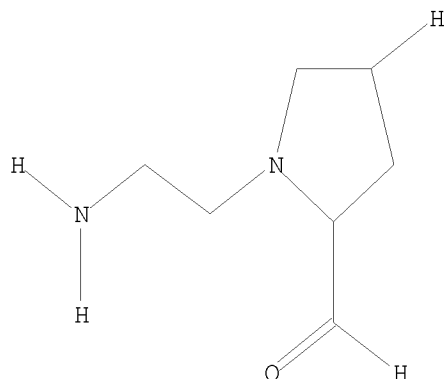
=> endf
 ENDF IS NOT A RECOGNIZED COMMAND
 The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).

=> d 11
 L1 HAS NO ANSWERS
 L1 STR



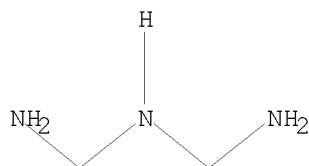
Structure attributes must be viewed using STN Express query preparation.

=> d 12
L2 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.
L2 0 SEA FILE=REGISTRY SSS SAM L1

=> d 13
L3 HAS NO ANSWERS
L3 STR



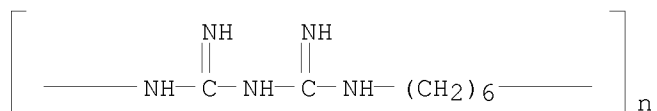
Structure attributes must be viewed using STN Express query preparation.

=> d 14
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L4 ANSWER 1 OF 50 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1017571-63-9 REGISTRY
ED Entered STN: 27 Apr 2008
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl),
(2Z)-2-butenedioate (CA INDEX NAME)
FS STEREOSEARCH
MF (C8 H17 N5)n . x C4 H4 O4
PCT Polyether, Polyether only
SR CA
LC STN Files: CA, CAPLUS

CM 1

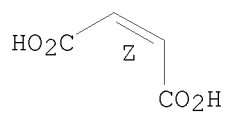
CRN 28757-47-3
 CMF (C8 H17 N5)n
 CCI PMS



CM 2

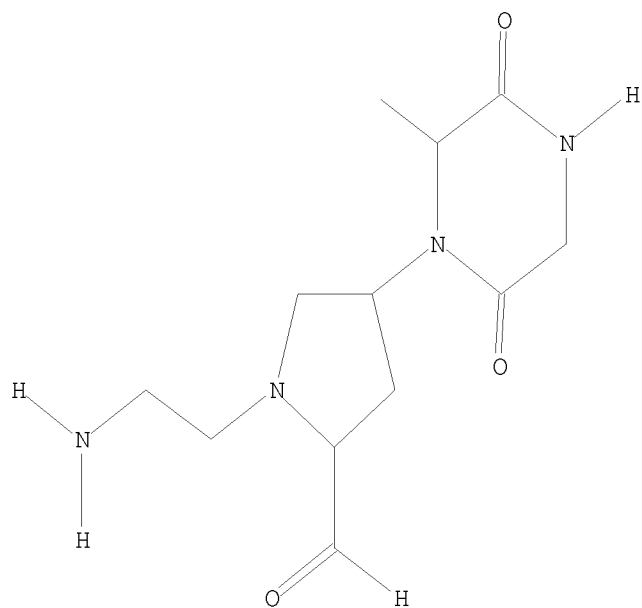
CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 15
 L5 HAS NO ANSWERS
 L5 STR

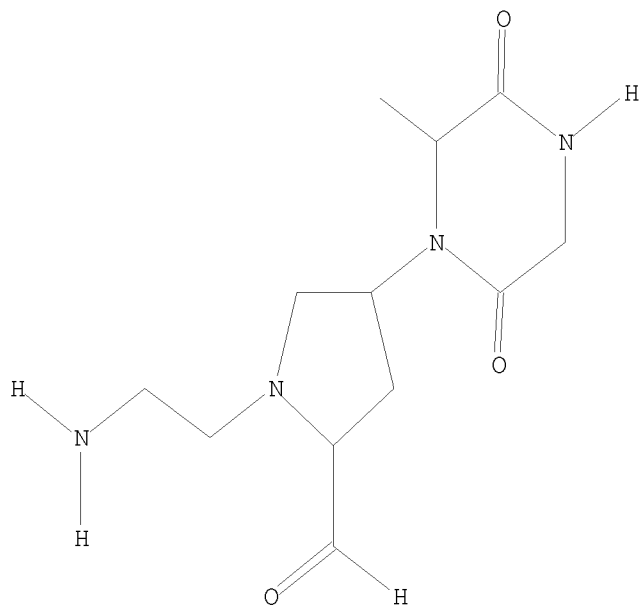


Structure attributes must be viewed using STN Express query preparation.

=> d 16

L6 HAS NO ANSWERS

L5 STR



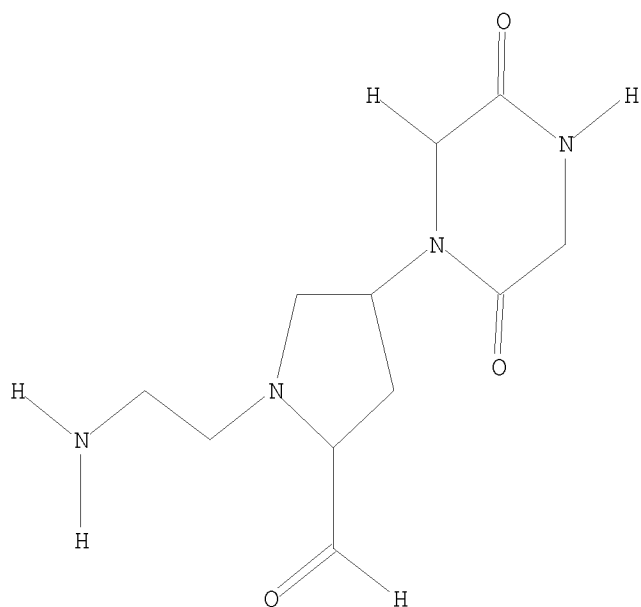
Structure attributes must be viewed using STN Express query preparation.

L6 0 SEA FILE=REGISTRY SSS SAM L5

=> d 17

L7 HAS NO ANSWERS

L7 STR

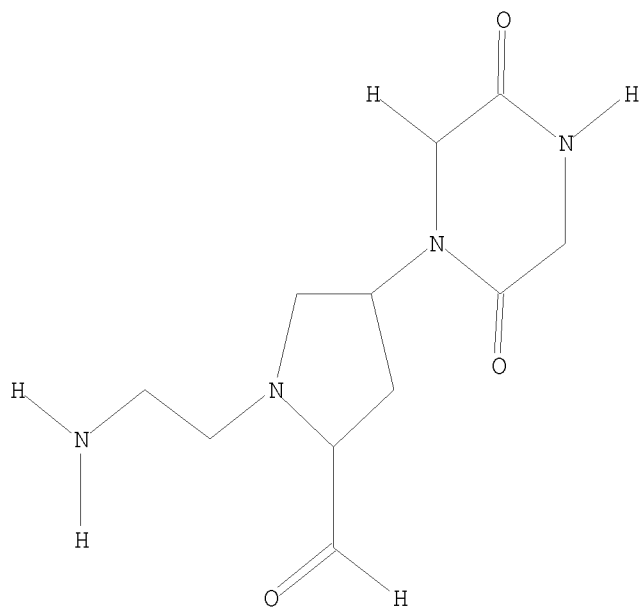


Structure attributes must be viewed using STN Express query preparation.

=> d 18

L8 HAS NO ANSWERS

L7 STR



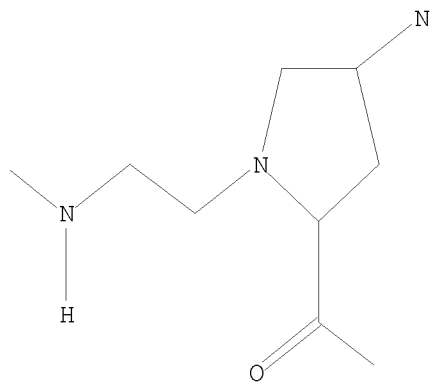
Structure attributes must be viewed using STN Express query preparation.

L8 0 SEA FILE=REGISTRY SSS SAM L7

=> d 19

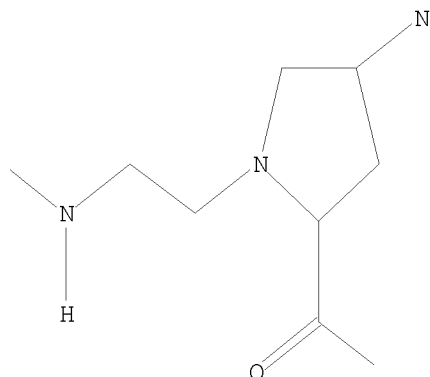
L9 HAS NO ANSWERS

L9 STR



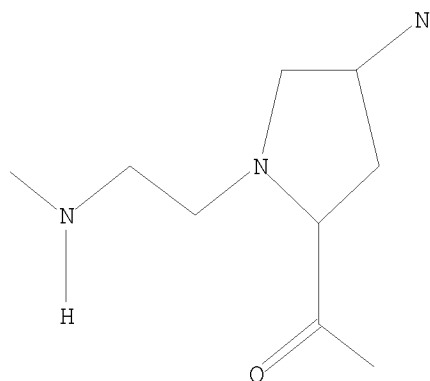
Structure attributes must be viewed using STN Express query preparation.

=> d 110
L10 HAS NO ANSWERS
L9 STR



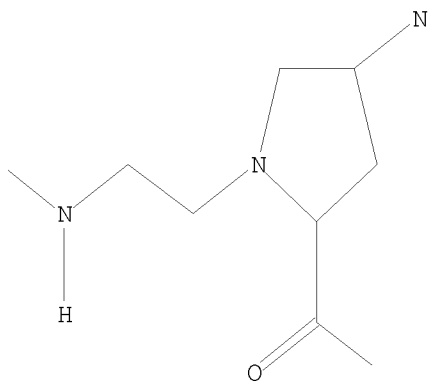
Structure attributes must be viewed using STN Express query preparation.
L10 0 SEA FILE=REGISTRY SSS SAM L9

=> d 111
L11 HAS NO ANSWERS
L9 STR



Structure attributes must be viewed using STN Express query preparation.
L11 0 SEA FILE=REGISTRY SSS SAM L9

=> d 112
L12 HAS NO ANSWERS
L9 STR



Structure attributes must be viewed using STN Express query preparation.

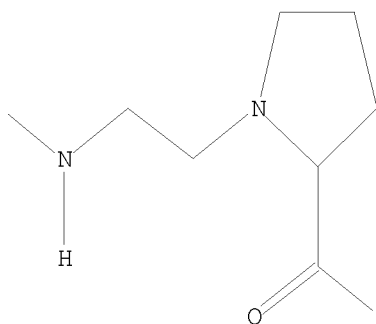
L11 0 SEA FILE=REGISTRY SSS SAM L9

L12 0 SEA FILE=HCAPLUS PLU=ON L11

=> d 113

L13 HAS NO ANSWERS

L13 STR



Structure attributes must be viewed using STN Express query preparation.

=> d 114

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L14 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2008 ACS on STN

RN 182814-75-1 REGISTRY

ED Entered STN: 07 Nov 1996

CN 2-Pyrrolidineacetamide, N-cyclohexyl-1-[2-[(2-naphthalenylcarbonyl)amino]-1-oxo-3-phenylpropyl]- α -oxo-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

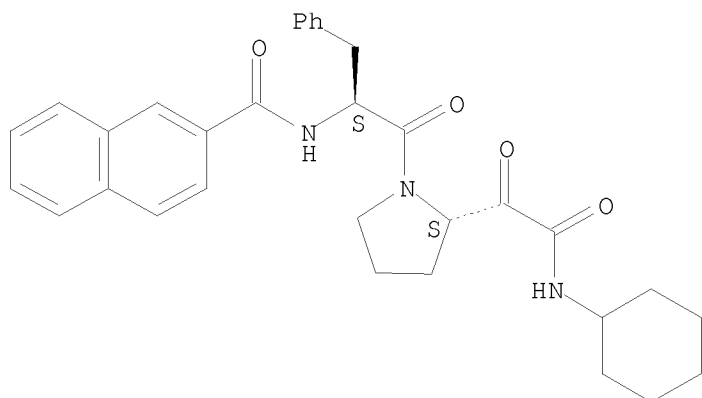
FS STEREOSEARCH

MF C32 H35 N3 O4

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (-).



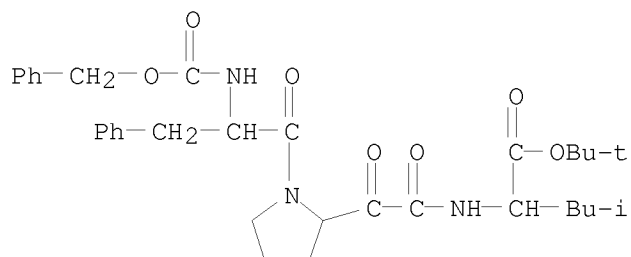
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 114 2

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L14 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2008 ACS on STN
RN 141403-72-7 REGISTRY
ED Entered STN: 22 May 1992
CN D-Leucine, N-[oxo[1-[1-oxo-3-phenyl-2-[[(phenylmethoxy)carbonyl]amino]propyl]-2-pyrrolidinyl]acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
MF C33 H43 N3 O7
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

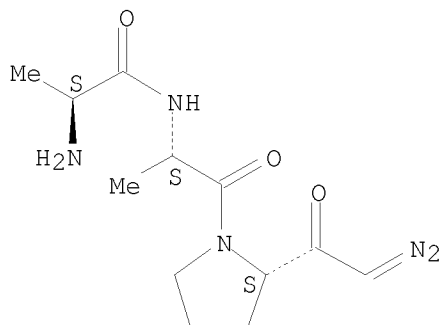
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 114 3

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L14 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2008 ACS on STN
RN 135251-81-9 REGISTRY
ED Entered STN: 02 Aug 1991
CN Propanamide, 2-amino-N-[2-[2-(diazoacetyl)-1-pyrrolidinyl]-1-methyl-2-oxoethyl]-, [2S-[1[R*(R*)],2R*]]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H19 N5 O3
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



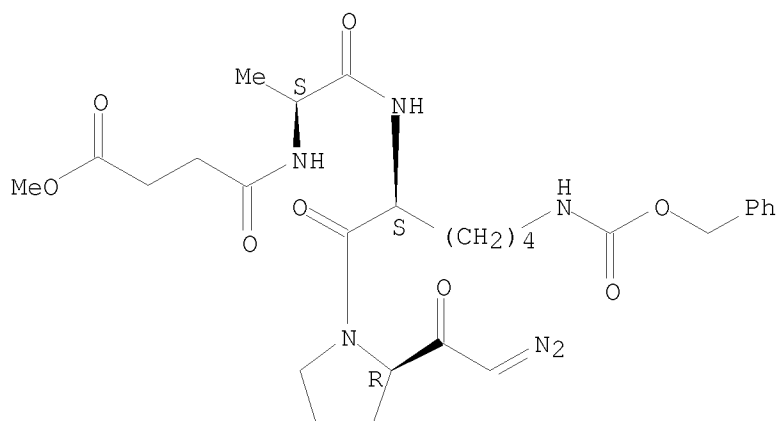
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 114 4

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L14 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2008 ACS on STN
RN 130508-00-8 REGISTRY
ED Entered STN: 16 Nov 1990
CN Butanoic acid, 4-[[2-[[1-[[2-(diazoacetyl)-1-pyrrolidinyl]carbonyl]-5-[[[(phenylmethoxy)carbonyl]amino]pentyl]amino]-1-methyl-2-oxoethyl]amino]-4-oxo-, methyl ester, [2R-[1[S*(S*)],2R*]]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H38 N6 O8
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil log off

'LOG' IS NOT A VALID FILE NAME

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

ENTER A FILE NAME OR (IGNORE):end

=> end

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

40.35

184.23